



Maths at Weetwood



Nursery


Over the year, maths is taught through the areas of provision, following the themes we study and the interests of the children.

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Reception


ELG: Number Children at the expected level of development will: - Have a deep understanding of number to 10, including the composition of each number; 14 - Subitise (recognise quantities without counting) up to 5; - Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts
ELG: Numerical Patterns Children at the expected level of development will: - Verbally count beyond 20, recognising the pattern of the counting system; - Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity; - Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.

	Autumn		Spring		Summer	
Year 1 	Place Value (10)	Addition/Subtraction (10)	Addition and Subtraction (20)	Place Value (20) including multiples of 2,5,10s	Multiplication and Division reinforce multiples of 2,5,10s	Place Value (100)
	Reading, writing, ordering and comparing numbers to 10.	Subtracting 2 single digit numbers within 10 using different methods and representation. -Facts Families for sets of numbers.	Adding and subtracting 2 numbers within 20 using numbers bonds, making 10 and crossing 10.	-Ordering and comparing numbers to 50. -Counting in 2s,5s and 10s	Counting in 10s -Making equal groups and arrays through sharing and grouping	- Reading, writing, ordering and comparing numbers to 100. -Partitioning numbers to 100 into tens and ones.
	Addition/Subtraction (10)	Shape	Place Value (20) including multiples of 2,5,10s	Length and Height	Fractions	Money
	-Adding 2 single digit numbers together different methods and representations. -Number bonds for all numbers to 10	-Recognizing and naming 2D and 3D shapes. -Making pattern	-Reading, writing, numbers to 50. -Tens and ones in numbers to 50	-Comparing and measuring lengths and heights using cm and non-standard measurements.	-Finding halves and quarters in shapes and numbers.	-Recognizing coins and notes. -Finding amounts of coins
		Place Value (20)		Volume and Capacity	Position and Direction	Time
		-Reading, Writing and comparing numbers and groups of objects to 20. -Tens and ones to 20.		-Measuring and comparing mass, volume and capacity using non -standard units	-Describing turns and positions.	-Reading time to the hour and half hour -Comparing time -Measuring and writing time
Year 2	Number	Measurement - money	Multiplication and division	Fractions	Measurement - Length and Height	Measurement - Time

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	Place Value up to 100. Comparing and ordering numbers. Counting in 2's, 5's and 10's.	Money Counting, in pence and pounds, notes and coins, making, comparing, finding the total and difference and giving change.	Making equal groups by sharing and grouping of 2's, 5's and 10's, odd and even numbers.	Find half, quarter, thirds, count in fractions.	Measure, compare and order lengths in M and CM. Use all four operations learnt so far.	O'clock, half past, quarter to and past, telling the time to 5 minutes, hours in a day.
	Addition and subtraction	Multiplication and division	Statistics		Position and movement	Measurement - Mass, capacity and temperature
	Bonds to 20 and 100, add and subtract 2 digit to 2 digit numbers.	Making equal groups by sharing and grouping of 2's, 5's and 10's, odd and even numbers.	Tally charts, pictograms and block diagrams.		Describe movements, turns and make patterns.	Compare mass in G and K and compare capacity in ML and L.
			Geometry		Consolidation and problem solving	
			Lines of symmetry, making patterns, edges, faces, vertices of 2D and 3D shapes.			
Year 3 	Place Value up 1000	Addition and subtraction using three digit numbers	Multiplication and Division –	Measurement – length and perimeter.	Fractions	Measurement of shapes – Geometry
	Identifying Hundreds, Tens and Ones and finding numbers greater than and less than. Finding 1, 10, and 100 more or less than numbers to 1000. Comparing objects and numbers to 1000. Counting in 50s.	Adding two three digit numbers crossing 10 or 100. Subtracting a three-digit number from a three-digit	recapping 3, 4 and 8 times table, Two digits multiplied by single digit. Comparing statements. Multiplying two digit numbers by single digits. Dividing two digit numbers by single digits. Scaling.	Measuring lengths and identifying equivalents lengths (mm, cm and m) Comparing lengths. Adding and subtracting lengths Measuring and calculating perimeters.	Identifying equivalent fractions. Comparing fractions. Ordering fractions. Adding and subtracting fractions with the same denominator.	Identifying turns and angles. Recognising right angles in shapes. Comparing angles. Drawing lines accurately. Horizontal and vertical lines. Parallel and perpendicular lines. Recognising and describing 2D shapes. Recognising and describing 3D shapes. Making 3D shapes.
	Addition and subtraction using three digit numbers	Multiplication and Division	Measurement - Money	Number – fractions	Measurement – time	Measurement – mass and capacity
	Adding and subtracting multiples of 100. Adding and subtracting single digits to three digit numbers Adding and subtracting two digit numbers to three digit numbers. number with an exchange.	(focus on 3, 4 and 8 times tables) Identifying that multiplication uses equal groups. Multiplying and dividing by 3. Multiplying and dividing by 4. Multiplying and dividing by 8. Using 3, 4 and 8 times tables to solve problems. Consolidation of addition and	Identifying and finding totals using pounds and pence. Converting pounds and pence. Adding and subtracting amounts of money. Giving change.	Identifying unit and non-unit fractions. Making a whole. Identifying and counting in tenths. Finding fractions on a number line. Finding fractions of amounts.	Identifying months and years. Hours in a day. Telling the time to 5 minutes. Using am and pm. 24-hour clock. Finding and comparing durations.	Measuring mass. Comparing mass. Adding and subtracting mass. Measuring capacity. Comparing capacity. Adding and subtracting capacity.
		Statistics				

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		subtraction -recapping using columns to add and subtract.	Interpret and present data in bar charts, pictograms and tables.		Start and end times. Measuring time in seconds.	
Year 4 	Number – Place Value	Measurement – Length and perimeter	Number – Multiplication and Division	Number – Fraction	Number – Decimals	Statistics
	Children will learn to recognise the value of the thousands, hundreds, tens and ones. They will find 100 and 1000 more and less than given numbers and solve practical problems.	Year 4 will learn how to find and measure the perimeter of rectilinear shapes in cm and m.	Children will continue to practise multiplication facts and learn to multiply one digit numbers by 2 digit numbers using a formal written layout.	Children will learn about equivalent fractions. They will investigate fraction problems looking at quantities.	Year 4 will compare numbers with the same number of decimal places up to two decimal places. They will learn to round decimals and identify the value of tenths and hundredths.	Year 4 will begin to interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. They will solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs
	Number – Addition and Subtraction	Number – Multiplication and Division	Measurement – Area	Number – Decimals	Measurement – Money	Geometry – Properties of Shapes
	Children will practise column addition and subtraction with exchanges. They will find the most efficient way to subtract and learn how to estimate.	Children will practise counting in multiples of 6, 7, 9, 25 and 100. They will learn to multiply 2 digit numbers by 1 digit numbers using the distributive law.	Children will learn to find the area of rectilinear shapes by counting the squares.	They will learn to write decimal equivalents of any number of tenths or hundredths. Children will learn to solve fractions and decimals problems to two decimal places.	Children will learn to estimate, compare and calculate different measures, including money in pounds and pence.	Children will investigate angles; they will learn to identify and order acute and obtuse angles. They will also learn to classify shapes and identify lines of symmetry in different orientations.
					Measurement – Time	Geometry – Position and Direction
				Children will learn to read, write and convert time between analogue and digital 12-and 24-hour clocks. They will investigate problems involving time and conversion from hours to minutes; minutes to seconds; years to months; weeks to days.	Year 4 will learn to describe positions on a quadrant in coordinates and plot coordinates to create a shape. They will learn to describe the movements of a translation.	
Year 5	Place Value:	Multiplication and division:	Multiplication and Division:	Fractions:	Decimals:	Position and Direction

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	up to 1,000,000	Multiply and divide whole numbers by 10, 100 and 1000. Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.	Multiply and divide up to 4 digits by a 1 or 2 digit number using long multiplication and short division	Multiply proper fractions and mixed numbers by whole numbers.	Solve problems involving number up to three decimal places. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	Reflection and translation with coordinates
	Addition and Subtraction:	Perimeter and Area	Fractions	Decimals and Percentages:	Properties of Shape	Measurement: Converting Units
	whole numbers using the column method up to 4 digits checking with the inverse operation Statistics Read and interpret line graphs, two way tables and timetables	Measure and calculate the perimeter and area of composite rectilinear shapes in cm and m, cm ² and m ²	Compare and order fractions Identify, name and write equivalent fractions Recognise mixed numbers and improper fractions Add and subtract fractions with the same denominator and denominators that are multiples of the same number.	Read, write, order and compare numbers with up to three decimal places.	Measure angles in degrees with a protractor Calculate angles and lengths of regular and irregular polygons	Convert between different units of metric and imperial measure
	Statistics					Measurement: Volume
	Read, interpret and problem solve with line graphs. Read and interpret tables and timetables.					Compare and estimate volume and capacity
Year 6	Number – Place Value	Number – Fractions	Number – Decimals	Measurement – Converting Units	Geometry – Properties of Shapes	Investigations
	Up to 10,000,000	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. Compare and order fractions, including fractions > 1	Multiply one-digit numbers with up to 2 decimal places by whole numbers. Use written division methods in cases where the answer has up to 2 decimal places.	Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit, and vice versa, using decimal notation to up to 3dp.	Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons.	Making links across the maths curriculum.
	Number – Addition, Subtraction, Multiplication and Division	Geometry – Position and Direction	Number – Percentages	Measurement – Perimeter, Area and Volume	Problem Solving	
	Multiply multi-digit number up to 4 digits by a 2-digit number using formal	Describe and translate positions on the full coordinate grid (All four quadrants)	Use equivalences between simple fractions, including in different contexts	Use formulae for area and volume of shapes. Calculate the area and	Making links across the maths curriculum.	



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method of long multiplication. Divide numbers up to 4 digits by a 2-digit whole number using the formal written method of long division.			volume of shapes. Calculate the area of parallelograms and triangles. Ratio.		
		Number – Algebra		Statistics	
		Use simple formulae		Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter	